Work Orde August 24, 2010	er ID 61402 9:01:01 AM							,				Page 1
Revision ID:	D212-580-041 Cargo Mirror Assembly			Accept					Setup	Start Stop		
	8/24/10 Start Q	ty: 2.00 Qty: 2.00	1831/3 1741 184 1841/3 1741 1841		Cust Item I Customer:	D:			.•	- .	- +	
Approvals:	Process Plan: CG		Date: 10/8/0	•		ate:			Run	Start Stop		
Sequence ID/ Work Center II	Operation Descript			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr											
D2161	Rev B2											
DC Document Control	DOCUME	ENT CONTROL Memo Photocopy bl		0.00 0.00 as per PPP D212-580-04	1 СНG003							
110 Large Fab Large Fab	Large Fab	Memo	on Jig DT8065 as per D fy as D2161-212□A/R	0.00 0.00 wg D2161□2-Weld as pe SS ROD Batch:_ <u>M</u>	or Dwg 108/60			A		10-	8-3	30_(X
120	QC5- Insp	ect part comple	eteness to step on W/O	0.00	05/30			(D)			
QC		Memo		0.00								-

Quality Control

Dart	Aeros	pace	Ltd
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W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE	CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
								•		

Part No:PA	AR #: Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B				Approval			
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Verification Section C	Approval Chief Eng	QC Inspector			
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Work Orde August 24, 2010										- 1	Page 2
Item ID: Revision ID:	D212-580-04	1		Accept				Setu	p Start		
	Cargo Mirror A	Assembly							Stop		
Start Date: Required Date: Reference:	8/24/10 9/07/10	Start Qty: 2.00 Req'd Qty: 2.00	1881 1884 1884 1881 1884 1884		Cust Item II Customer:) :					
								Run	Start		
Approvals:	Process Pla QC:	n:	Date:	Tooling: SPC (Y/N):		te:			Stop		
Sequence ID/ Work Center II 130 QC Quality Control)	Operation Description QC9- Inspect visual per Quantum Memo	SI004- Fusion Welds	Set Up/ Run Hours 0.00	Tool ID B.E 210.08.3		Code Q				sp. amp
Powdercoat Powder Coating		Black Sandtex(Ref: 4.3.5.7 Memo START TIME	88	0.00 0.00 OVEN TEMPERATU	JRE:		2		W 16	-8-31	•

0.00 M 10 (0 E \ 31

Quality Control

QC3- Inspect Part Finish

Memo

Dart Ae	rospace	e Ltd								·
W/O:			W	ORK ORDER CH	IANGES				•	
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				or € V						
Part No	:	PAR #:	Fault Cate	egory:	N	CR: Yes I	No DQA:		Date:	
	Re	esolution:	Disposition	on:	Q	A: N/C Clo	sed:		Date: _	
NCR:		\	WORK ORD	ER NON-CONFO	ORMANC	E (NCR)				
		Description of NC		Corrective Action	Section B		Verifica	tion	Approval	Approval
DATE	STEP	Section A	Initial Action Descript Chief Eng Chief Eng			Sign & Date	Section		Chief Eng	QC Inspector
										
			1							

NCR:		WORK ORDER NON-CONFORMANCE (NCh)										
		Description of NC		Corrective Action Section 8	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Action Description Sign & Date		Section C	Chief Eng	QC Inspector					
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Work Order ID 61402

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August 24, 2010 9:01:01 AM

Item ID:

D212-580-041

Accept

Setup Start

Stop

Start

Stop



Revision ID:

Item Name:

Required Date: 9/07/10

Cargo Mirror Assembly

Start Date:

8/24/10

Start Qty: 2.00

Req'd Qty: 2.00

Operation

Pick Kit

Description



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling: Date:_____

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Date:

Date:

Tool # Plan

Code

Accept Qty

Reject Qty

Run

Reject Number Stamp

Insp.

160

Sequence ID/

Work Center ID

Packaging Packaging

Memo

0.00

0.00

170

180

Quality Control

QC4- 100% Inspect kits for completeness

0.00

Memo

0.00

0.00

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D212--580 041 □ Location: □PPP Rev:

W/O:			WORK ORDER CHANGES								
DATE	STEP		PROCEDURE CHANGE				Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Category:	NCR: Yes	No DQ	4 :	Date: _				
	R	esolution:	Disposition:	QA: N/C	Closed:		Date: _				

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	Verification	Amproval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector				
			1 1			1		1				

Work Order ID 61402

August 24, 2010 9:01:01 AM



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Item ID:

D212-580-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Required Date: 9/07/10

Cargo Mirror Assembly

Start Date:

8/24/10

Start Qty: 2.00

Operation

Description

Req'd Qty: 2.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Date: _____

Tooling:

Date:

Date:

Tool # Plan

Code

Start



Stop

Reject

Run

Accept

Qty

Sequence ID/

Work Center ID

190

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

SPC (Y/N):

0.00

Qty

Reject

Insp. Number Stamp

Memo

0.00

Quality Control

Dart Aerospace L	td
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										<i>,</i>	
W/O:			W	ORK ORDER CHANG	GES				•		
DATE	STEP	PRO	OCEDURE CHA	NGE	By Date Qt					Approval QC Inspector	
···			 								
Part No	:	PAR #:	Fault Cate	egory:	_ NCR	: Yes 1	lo DQ	A:	Date:		
	Re	esolution:	Disposition	n:	QA:	QA: N/C Closed: Date:					
NCR:		,	WORK ORD	ER NON-CONFORM	ANCE	(NCR)					
DATE STEP	Description of NC	Description of NC Corrective Act			Veri			Approval	Approval		
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sect	ion C	Chief Eng	QC Inspector	
									·		

										,	

Picklist Print

August 24, 2010 9:01:01 AM

Work Order ID: 61402

Parent Item: D212-580-041

Parent Item Name: Cargo Mirror Assembly



Start Date: 8/24/10

Start Qty: 2.00

Required Date: 9/07/10

Required Qty: 2.00

◠.				ts:
	m	m	Pn.	re.

Comments: IP	P Rev:H Remov	ed D2013-3/-4 (06-03-2	22 JLM				· · · · · · · · · · · · · · · · · · ·						
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per	Kit	Total Qty	Qty Issued	Date Issued	Status
MS27039-1-08		Purchased	No		-	100	Each	1,693.000	4	18	18/22			
				Location	<u>1</u> .	<u>Loc</u>	<u>Qty</u>	Loc Code					!	
				ST291			1693							
					110835		493			6				
					, <u>114718</u> 115108		200 1000			0				\wedge
02013-3		Manufactured	No		.,,,,,	110	Each	2.0000	1		2	$\rightarrow A$,	/)
Mirror Bracket LH, 212											10	/8/ :	2 55	
mior Bracket Err, 212				Location	1	Loc		Loc Code						
	• .			WA	60052		2 2				7			
02013-4 		Manufactured	No		60053	110	Each	2.0000	1		2 /0 /	1/2)
, 2.2				Locatio	<u>n</u>	Loc	<u>Oty</u>	Loc Code						
				WA			2			>				
					r 60054		2			<u> </u>		-		
CCR264SS3-2		Purchased	No	•		170	Each	192.0000			/0/e/	92	S	
•		•		<u>Locatio</u>	<u>n</u>	<u>Loc</u>	<u>Oty</u>	Loc Code						
				ST311			192			_		-		
•					106578		45			G		-		
					108738		47 100			٥		-		

Dart Aerospace	Ltd
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W/O:			WO	RK ORDER CHANG	GES			9.	
DATE	STEP	PRO	OCEDURE CHAI	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				•					
Part No	:	PAR #:	Fault Cateç	jory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposition	ı:	QA: N/C C	losed:		Date: _	
NCR:		1	WORK ORDE	R NON-CONFORM	IANCE (NC	R)	·		
DATE	OTED	Description of NC		ction B	Verifi	cation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	tion C	Chief Eng	QC Inspector
-									
									

August 24, 2010 9:01:01 AM

Work Order ID: 61402

Parent Item:

D212-580-041

Parent Item Name: Cargo Mirror Assembly



Start Date: 8/24/10

Required Date: 9/07/10

Start Qty: 2.00

Required Qty: 2.00

D2011-103

1.

Mirror #8

No Manufactured

170

170

30.0000

D2037-101

Manufactured

Purchased

. No

ST226 58399

Loc Oty 30 30 170 Each

Each

Loc Code

6.0000

MS21059L3



Location WA

Location

60059

Loc Oty

Each

42.0000

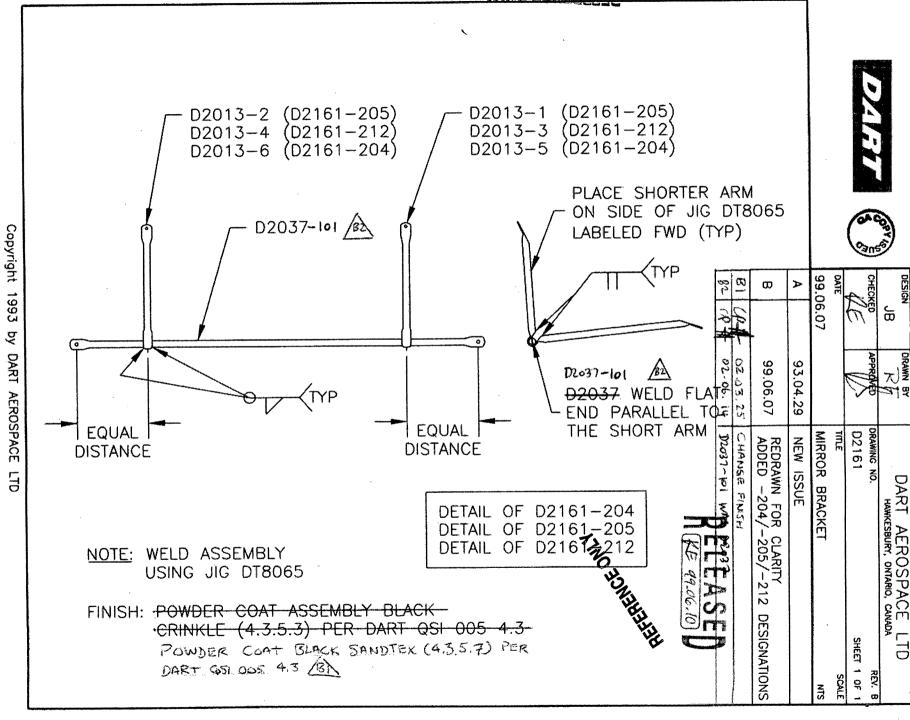
Loc Code

Location Loc Qty 41 ST301 114718 41 ST302 114456

Loc Code

Dart Ae	rospace L	_td								
W/O:			WO	RK ORDER CH	ANGES			2		
DATE	STEP	PRO	CEDURE CHAN	GE		Ву	Date Q	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
i , , , ,										
Part No	:	PAR #:	Fault Categ	ory:	N	ICR: Yes	No DQA: _	Date: _		
	Res	solution:	Disposition	:	c	A: N/C Cl	osed:	Date:		
NCR:		V	WORK ORDE	R NON-CONFO	RMAN	CE (NCR)			
	0750	Description of NC		Corrective Action	Section B		Verification	on Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Descrip	ption	Sign & Date	Section C		QC Inspector	

Section A Chief Eng Chief Eng Chief Eng Section C Chief Eng OC Inspector





WEIGHT AND BALANCE 4.0

		LA	TERAL	LONGITUDINAL		
Installation	Weight	Arm	Moment	Arm	Moment	
D204-562-041	5.0 lb	0 in	0 lb-in	3.80 in	19.0 in-lb	
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	0.10 m	0.23 m-kg	
D205-563-041	5.0 lb	0 in	0 lb-in	3.80 in	19.0 in-lb	
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	0.10 m	0.23 m-kg	
D212-580-041	5.0 lb	0 in	0 lb-in	-5.25 in	-26.3 in-lb	
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	-0.13 m	-0.30 m-kg	

PARTS LIST 5.0

Qty 562 -041	Qty 563 -041	Qty 580 -041	Part Number	Description
Х			D204-562-041	DUAL MIRROR INSTALLATION
	Х		D205-563-041	DUAL MIRROR INSTALLATION
		Х	D212-580-041	DUAL MIRROR INSTALLATION
2	2	2	D2011-103	MIRROR
1			D2161-204	MIRROR BRACKET
	1		D2161-205	MIRROR BRACKET
		1	D2161-212	MIRROR BRACKET
*2	*2	*2	D3015-3	LOCKNUT
*2	*2	*2	AN960JD516	WASHER
		4	CCR264SS-3-2	RIVET, BLIND
		2	MS21059L3	NUTPLATE
4	4	4	MS27039-1-08 7	SCREW

^{*} PARTS ARE INCLUDED WITH D2011-103 MIRROR